

Claims

1. A method for transmitting trace data to a network tester (NT), in which case the data transmission between a mobile terminal (1) and a network (9) is traced, **characterized** in that the trace data (11) is transmitted by using a standardized interface specification (3), in which case setting the trace parameters and communicating the trace data via specific AT commands (10) is controlled at the same time.
2. The method according to claim 1, **characterized** in that the trace data (11) is buffered and delayed in the terminal (1) in question before its transmission, in which case the timings connected to the operation of the terminal (1) in question can be hidden.
3. The method according to claim 2, **characterized** in that at least the trace data concerning the system information of the terminal (1) and the packet system information is buffered.
4. The method according to any of the claims 1 to 3, **characterized** in that in addition to the specific AT command set (10), a normal AT command set known as such is used in controlling the operation of the terminal (1), but the use of only one command set at a time in controlling the terminal (1) is allowed.
5. The method according to any of the claims 1 to 4, **characterized** in that the trace data (11) to be sent to the network tester (NT) is modified into a format, wherein it comprises only the data substantial from the point of view of tracing.
6. The method according to any of the claims 1 to 5, **characterized** in that the interface (3) in question is used also in other data transmission, in which case it is a bus intended for communicating normal user data is in question.
7. The method according to any of the claims 1 to 6, **characterized** in that the bus in question is used for data transmission between the

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network tester (NT) and the network (9), from which trace data (11) is collected simultaneously.

5 8. A trace system, which comprises a network tester (NT) and a mobile terminal (1), which is arranged for collecting trace data and communicating it to a network tester (NT), in which case the trace data applies only to the data transmission between the mobile terminal (1) and the network (9), **characterized** in that the system comprises a standardized interface (3), which is arranged to communicate trace data (11), and control means (14, 15) for setting the parameters of tracing and for communicating the trace data, which can be controlled with specific AT commands (10).

15 9. The trace system according to claim 1, **characterized** in that, in addition, it comprises means (14, 15) for buffering and delaying the trace data (11) in the terminal (1) in question before its transmission to the network tester (NT), in which case the timings connected to the function of the terminal (1) in question can be hidden.

20 10. A terminal, which is arranged for data transmission between the terminal (1) in question and a network (9), and which, in addition, is arranged to collect trace data (11), which applies to said data transmission, and to communicate it further, **characterized** in that the terminal in question comprises a standardized interface (3), which is arranged to communicate trace data (11), and control means (14, 15) for setting the parameters of tracing and for communicating the trace data, which can be controlled with specific AT commands (10).

30 11. The terminal according to claim 10, **characterized** in that, in addition, it comprises means (14, 15) for buffering and delaying the trace data (11) in the terminal (1) in question before its transmission further via said interface.

35 12. The terminal according to claim 10 or 11, **characterized** in that it also comprises means (MM) for connecting an external network tester (NT) to the terminal, which network tester is intended for receiving trace data, for providing said AT commands.

13. A network tester, which is arranged for data transmission between a mobile terminal (1) and a network (9), and which, in addition, is arranged to collect trace data (11), which applies to said data transmission, **characterized** in that the network tester in question comprises a standardized interface (3), which is arranged for setting the trace parameters and for communicating the trace data, which can be controlled with specific AT commands (10).
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